



Progression in Number and Place Value

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Vocab	oulary			
1:1 counting subitise	count how many more less same different more fewer greater than more than less than even odd	equal to more than less than fewer most least	place holder tens ones digit partition greater than less than	tens ones hundreds multiple estimate	negative Positive thousands round integer	powers	degree of accuracy interval
			Coun				
Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Counting throughout the session. E.g. group time- number of children, counting the number of children before coming back inside etc. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').	Verbally count beyond 20, recognising the pattern of the counting system. Verbally count from 1-20 and beyond. Recognising the pattern of the counting system.	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count, read and write numbers to 100 in numerals count in multiples of twos, fives and tens Given a number, identify one more and one less	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	Count from 0 in multiples of 4, 8, 50 and 100 Find 10 or 100 more or less than a given number	Count backwards through zero to include negative numbers Count in multiples of 6, 7, 9, 25 and 1000 Find 1000 more or less than a given number	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Count forwards or backwards in steps of powers of 10 for any given number up to 1000 000	Use negative numbers in context, and calculate intervals across zero

	,		T				
Repetition of 'How							
many?' Every time							
something is counted.							
Show 'finger numbers'							
up to 5.							
ир 10 3.							
Group time- show me							
· ·							
on your fingers how							
many in today?							
Number hunt, show the							
number found.							
		T	Comparing		1	T	
Compare quantities	Compare quantities up	Use the language of:	Compare and order	Compare and order	Order and compare	Read, write, order and	Read, write, order and
using language: 'more	to 10 in different	equal to, more than,	numbers from 0 up	numbers up to 1000	numbers beyond 1000	compare numbers to at	compare numbers up to
than', 'fewer than'.	contexts, recognising	less than (fewer),	to 100; use and =			least 1 000 000 and	10 000000 and
	when one quantity is	most, least	signs		Compare numbers	determine the value of	determine the value of
Discussion about	greater than, less than				with the same number	each digit	each digit
changes to the number	or the same as the				of decimal places up		
of items in a song	other quantity.				to two decimal places		
of reells in a song	omer quantity.				To two decimal places		
	Look at two numbers or						
	quantities of objects						
	and recognise which is						
	more, which is less or						
	if they are the same						
			entifying, representin			1	
Fast recognition of up	Subitise (recognise	Identify and represent	Identify, represent	Identify, represent	Identify, represent		
to 3 objects, without	quantities without	numbers using objects	and estimate	and estimate	and estimate numbers		
having to count them	'	and pictorial	numbers using	numbers using	using different		
individually	counting) up to 5.	representations	different	different	representations		
('subitising').		including the number	representations,	representations	'		
(002	Instantly recognise	line	including the number				
Numicon.	quantities of objects		line				
Number hunts	·		inic				
Teacher focus	for numbers up to 5.						
•							
activities- how many?							
		Readin	g & Writing numbers	(including Roman Nun	nerals)		
Link numerals and		Read and write	Read and write	Read and write	Read Roman numerals	Read, write, order and	Read, write, order and
amounts: for example,		numbers from 1 to 20	numbers to at least	numbers up to 1000	to 100 (I to C) and	compare numbers to at	compare numbers up to
showing the right		in numerals and words.	100 in numerals and	in numerals and in	know that over time,	least 1 000 000 and	10 000 000 and
number of objects to		ranger als and words.	in words	words	the numeral system	determine the value of	determine the value of
number of objects to			iii words	Words	changed to include	each digit	each digit
					changed to include	euch uigh	euch uigh

match the numeral, up to 5. Daily flash card of number for quick recall. Focus teach activities matching the number given to numeral. Experiment with their own symbols and marks as well as numerals. Number hunts Recording problems Recording scores in a game				Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	the concept of zero and place value.	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.			
Understanding Place Value									
	Have a deep understanding of number to 10, including the composition of each number. Recall the composition of numbers 1-10 in different ways.		Recognise the place value of each digit in a two-digit number (tens, ones)	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places		
Rounding									
					Round any number to the nearest 10, 100 or 1 000	Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	Round any whole number to a required degree of accuracy		
					Round decimals with one decimal place to the nearest whole number	Round decimals with two decimal places to the nearest whole	Solve problems which require answers to be rounded to specified degrees of accuracy		

						number and to one decimal place		
Problem Solving								
Solve real world mathematical problems with numbers up to 5.			Use place value and number facts to solve problems	Solve number problems and practical problems involving these ideas	Solve number and practical problems that involve all of the above and with	Solve number problems and practical problems that involve all of the above	Solve number and practical problems that involve all of the above	
Putting snack items on the tables. Teacher asking questions- e.g. have we got enough pencils, chairs?					increasingly large positive numbers			